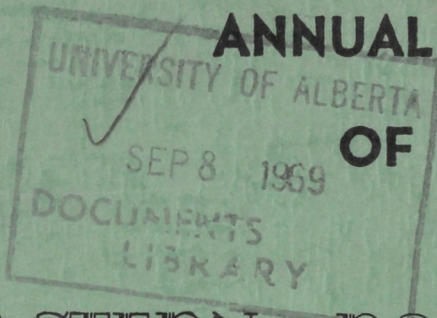


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OF THE**

**GENERAL SCIENCES**

**EASTERN ROCKIES FOREST  
CONSERVATION BOARD**

**FOR THE  
FISCAL YEAR  
1968-1969**

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**MARCH 31, 1969**

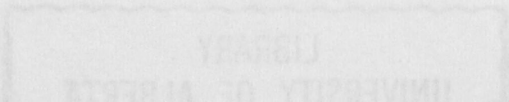
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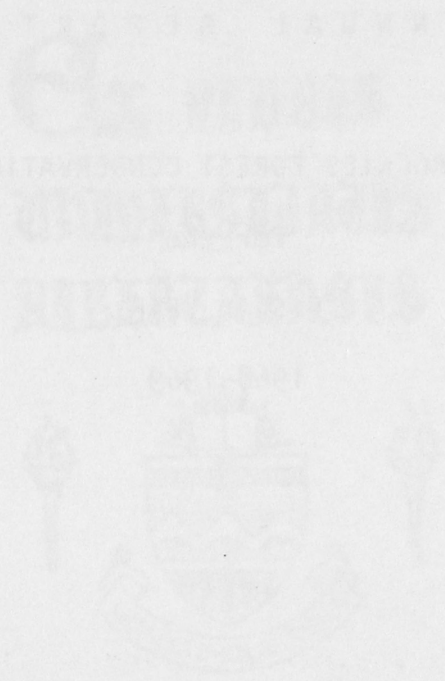


ANNUAL REPORT  
of the  
EASTERN ROCKIES FOREST CONSERVATION BOARD  
for the  
FISCAL YEAR  
1968-1969

CALGARY, Alberta

March 31, 1969





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EASTERN ROCKIES FOREST CONSERVATION BOARD  
908, John J. Bowlen Building  
620 - 7th Avenue S. W.  
Calgary 2, Alberta

Calgary, Alberta  
June 13, 1969

The Honourable Jack Davis  
Minister of Fisheries and Forestry  
Government of Canada  
Ottawa, Ontario

Sir

I have the honour to submit herewith the Annual Report of the Eastern Rockies Forest Conservation Board for the fiscal period April 1, 1968, to March 31, 1969, pursuant to the provisions of the Eastern Rocky Mountain Forest Conservation Act of 1947.

Respectfully submitted

J. R. H. Hall  
Chairman

2299463



EASTERN ROCKIES FOREST CONSERVATION BOARD

908, John J. Bowlen Building

620 - 7th Avenue S. W.

Calgary 2, Alberta

Calgary, Alberta

June 13, 1969

The Honourable Dr. J. Donovan Ross  
Minister of Lands and Forests  
Government of the Province of Alberta  
Edmonton, Alberta

Sir

I have the honour to submit herewith the Annual Report of the Eastern Rockies Forest Conservation Board for the fiscal period April 1, 1968, to March 31, 1969, pursuant to the provisions of the Eastern Rocky Mountain Forest Conservation Act of 1947.

Respectfully submitted

J. R. H. Hall  
Chairman



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## EASTERN ROCKIES FOREST CONSERVATION BOARD

### BOARD MEMBERS

Chairman and Provincial Member	J. R. H. Hall
Federal Member	Dr. J. D. B. Harrison
Provincial Member	A. T. Baker

\*\*\*\*\*

### PRINCIPAL OFFICERS

Chief Forester	W. R. Hanson
Secretary	J. P. Hourigan



## INTRODUCTION

Under the terms of the Eastern Rocky Mountain Forest Conservation Act and the Agreement between the Government of Canada and the Government of the Province of Alberta, the Board's responsibilities and duties as set out in the Act are to set policy, to plan programs for the protection and conservation of the forest resources, supervise the execution of the programs, and arrange for the undertaking of scientific investigations.

The Province of Alberta is authorized to carry out, under the direction of the Board, all administration and execution of the prescribed programs. These responsibilities have been fulfilled by the Alberta Forest Service in a most efficient manner, and the cooperation and assistance extended to the staff of the Board are gratefully acknowledged.

The undertaking of scientific investigations and participation in the Watershed Research Program occupied the main efforts of the Board during the year. A major investigation was the study of the effect of cutting on watershed and other values which was conducted at Hinton on the pulpwood management area of the North Western Pulp & Power, Ltd. Among the Board's contributions to the Watershed Research Program were: an erosion control project at Swan Hills; snow accumulation observations in the Castle River area; experimentation with and evaluation of snow accumulation contrivances at Plateau Mountain; and work on the precipitation storage gauge network.

The Board continued its work on the preparation and writing of Conservation Unit Guides although curtailed by the competition of other projects, chiefly the Hinton study.

Policy matters concerning the Conservation Area were dealt with by the Board and included in these were coal mining at Racehorse Creek, use of land for recreational and/or park purposes, mineral extraction in the Kananaskis Lakes area with commercial use of the Trunk Road, the safeguarding of the Marmot Basin for continued research use, and a host of similar matters.



The Board deeply appreciates the continued cooperation and assistance throughout the year of: the Department of Fisheries and Forestry, Canada, (Calgary Branch); the Department of Lands and Forests, Alberta; the Department of Energy, Mines and Resources, Canada, (Inland Waters Branch, Calgary); and the Meteorological Branch of the Department of Transport, Canada.

Again the Members of the Board acknowledge with gratitude the efficient and constant service given by the various staff members at all levels.

The Board's personnel establishment

Chief Forester

Secretary

Foresters, Grade II

Forester, Grade I

Technologists, Grade II

Clerk-Stenographer, Grade II

Clerk-Typist, Grade II



## ADMINISTRATION

Five meetings of the Board were held during the fiscal year 1968-1969, all in Calgary. A field trip to the Jumpingpound area of the Bow River Forest, and thence to the Kananaskis Forest Experiment Station, was held in conjunction with the meeting of August 15 - 16, 1968. Under the guidance of Mr. M. H. Drinkwater, Associate Regional Director, Department of Fisheries and Forestry, Calgary Branch, the Board inspected the new Station Headquarters at Kananaskis and also the University of Calgary's Environmental Sciences Laboratory, which is located within the station grounds. Minutes of all meetings were duly recorded and copies were submitted to the Minister of Fisheries and Forestry, Ottawa, and to the Minister of Lands and Forests, Edmonton.

There were no amendments to the existing Agreement between the Government of Canada and the Government of the Province of Alberta during the year under review.

The Board's personnel establishment comprised the following:

Chief Forester	
Secretary	
Foresters, Grade III	(2)
Forester, Grade I	(1)
Technologists, Grade II	(2)
Clerk-Stenographer, Grade III	
Clerk-Typist, Grade II	

During the year under review Mr. J. M. Marshall proceeded on retirement leave after fifteen years of faithful service as Secretary of the Board. He was succeeded by Mr. J. P. Hourigan who assumed the duties of Secretary on September 1, 1968.

In addition to the permanent staff a forestry student was engaged during the summer to assist with the field work and studies related to watershed management and research.

The permanent staff of the Alberta Forest Service assigned to the administration and protection of



the Conservation Area numbered 89, together with 32 Lookoutmen employed on a seasonal basis. In addition, personnel were engaged on a temporary basis on road construction and maintenance, standby fire duty, forest management and tree seeding, campground construction and caretaking, weather observing and other related duties. The foregoing are under the jurisdiction of the Director of Forestry, Alberta Forest Service.



## WATERSHED MANAGEMENT PLANNING

### CONSERVATION UNIT GUIDES

The watershed damage and condition survey was completed for all of the Conservation Area. Work proceeded on the guides for the remaining units in the Clearwater Forest and the Ghost Conservation Unit Guide - B3, B4, B5, was published.

### NORTH WESTERN PULP & POWER MANAGEMENT AREA INVESTIGATION

The North Western Pulp & Power, Ltd., with its headquarters at Hinton, Alberta, requested a change in their operational agreement with the Alberta Government to allow them to clearcut progressively rather than in alternate blocks and strips. Although the Area granted to this company lies outside the Conservation Area the Department of Lands and Forests asked the Board to have their watershed management staff investigate the possible results which the Company's request may have upon watershed values and other land resources. The Board granted the request and the staff carried out a careful investigation in the field, perused the literature on research and management under similar situations elsewhere and reported to the Department of Lands and Forests.

To fulfill the major purpose of the study, that of assisting the Department in reaching a decision on the Company's request, a different approach from the usual was used in reaching conclusions and presenting information. Instead of the completion of the entire study and presentation of the report in its entirety, it was done in three stages, aligning the thinking and the conclusions with Government policies and procedures as the study progressed. Following a three-month field investigation by a crew previously trained in surveying watershed condition, the findings were presented to the Department of Lands and Forests and discussed. At the direction of the Department a second stage was undertaken to predict the probable effects of progressive clearcut upon the land resources and to suggest tolerance limits to damage to the various resources resulting from pulpwood harvesting. Both the field investigations and research done in similar areas elsewhere were used. In discussion with the Department general agreement was reached on acceptable tolerance limits. The Board staff was then to proceed to prepare management alternatives in relation to the decision at hand and suggested improved methods which might be put into practice. These were



presented and discussed. From this point on the decision making rested entirely with the Department but a sound basis had been laid with extensive factual information and conclusions based upon policy. It was a deliberate attempt to make scientific investigation and analysis fit into the political processes of government in decision making.

This project occupied part of the time of all of the staff and up to half time of two foresters. The results, we believe, justify the effort. The decisions made concerning the management of the North Western Pulp & Power pulpwood management area may affect the economy of the Company. No doubt the decisions reached here will affect other pulp companies and many thousands of acres under pulpwood management agreements.

The use of the above outlined procedure in reaching resource management decisions may initiate a new approach in resource management planning.

The complete report presented to the Alberta Government shows the major damage to watershed value and the source of damage; not only that caused by the Company but that caused by the petroleum industry and the newly constructed Alberta Resources Railway. This will be useful to the local administrators as well as to the decision makers.

It is significant that no appreciable increase in overland flow or soil movement resulted on the cut-blocks as a result of the removal of the tree cover or the scarifying practice. Erosion and subsequent sedimentation of streams did result from the roads. Recreational values, especially the aesthetics, underwent some deterioration but useability of the area for recreation increased due to improved access. Game populations increased with pulpwood harvesting but fish habitat was damaged by sedimentation. Water yield increased as did also the peak flow but resulting stream channel damage appeared to be appreciable only in the foothills part of the area.



WATERSHED  
MANAGEMENT

During the earlier years of its existence the Board itself directed the implementation of its policies for the protection and management of watershed values in the Conservation Area. More recently the Board has confined itself to the formulation of policies and responsibility for administering the Area has rested with the Alberta Forest Service.

At the end of the fiscal year arrangements were completed for transfer of a professional member of the Board's staff to the Forest Service, where he is to assume the duties of chief of a new Watershed Management Section. Thus, experience gained in the service of the Board is made available to the administrative authority.



## MANAGEMENT BY THE ALBERTA FOREST SERVICE

The activities of the Alberta Forest Service in the Conservation Area are outlined hereunder.

### FOREST OPERATIONS

Utilization of small diameter round-wood stands mainly for post and pole operations continued to increase throughout the Forest Reserve. The Forest Service has now established a number of thinning areas in which stand improvement cuts are carried out, making available a certain amount of timber, mainly post sized, to the local residents.

The Crowsnest Forest experienced, in certain areas, a very severe epidemic of the Spruce Bark Beetle during the summer of 1968. These areas are concentrated mainly in the North Racehorse and South Castle basins with smaller infestations being found on Dutch Creek and South Lost Creek. In general, overmature spruce stands have received the brunt of the attack resulting in high tree mortality in the heavily infested areas.

In order to carry out some form of control, the Forest Service is supervising salvage operations whereby the majority of the killed timber or damaged timber is harvested. Strict logging practices are being enforced whereby logging slash is kept out of all watercourses, and skid roads and trails are effectively cross-ditched after use to avoid erosion with resulting stream siltation. In all it is estimated that the salvage program will involve approximately 20 million board feet.

Sale of new timber quotas was greatly restricted during the year due to the fact that the majority of the management units have been allocated for quota production. A total of four round timber quotas constituting annual cutting rights of 668,600 cubic feet were sold in Management Unit B1.

The following figures illustrate the silvicultural projects conducted in the three forests during the past year:



	<u>Seedlings Planted</u>	<u>Scarification Acres</u>	<u>Seeding Acres</u>	<u>Thinning Acres</u>	<u>Cone Collec- tion - Bu.</u>
Crowsnest	59,550	1,796	271	40	624
Bow River	75,245	300	Nil	2,011	3,214
Clearwater- Rocky	453,300	1,020	1,195	2	1,460

#### GRAZING

The grazing reports submitted by the Superintendents of the Crowsnest, Bow River and Clearwater-Rocky Forests and the Forest Management Branch of the Alberta Forest Service are condensed hereunder.

Weather patterns in the Crowsnest and Bow River Forests during the summer of 1968 were generally favourable for good forage production. The absence of extended dry periods produced range conditions which were appreciably improved over the previous year. The reverse of these conditions was experienced in the Clearwater-Rocky Forest; however, as all allotments in this Forest were stocked to only 50 per cent, general over-utilization did not occur. A record low for reported livestock losses was recorded in 1968 - this was .39 per cent of all livestock entered into the Conservation Area.

Some of the existing leases in the Crowsnest Forest expired during the year and these were replaced by the new Streeter and Lewis allotments in the northern portion of the Porcupine Hills. In the Bow River Forest approximately 11,000 acres of land in the Jumpingpound district were transferred to the Stony Indian Reserve in a Department of Highways land transfer. The area given up supported the majority of the grazing that takes place in that district. In the Clearwater-Rocky Forest winter horse grazing allotments have been either discontinued or suspended owing to overuse or failure to control the animals.

Range improvements in the three forests consisted of fencing, water supply, control of weeds, etc., in keeping with that done in preceding years.

A summary of grazing use by domestic animals and revenues derived is given as Appendix "B" to this report.



# RECREATIONAL PLANNING

During the past year there has been a significant increase in the number of enquiries and requests pertaining to the recreational use of lands in the Forest Reserve.

It is reported that the ARDA sponsored Recreation Capability Project, which is part of the Canada Land Inventory Program, was carried on during the year for the Forest Reserve. It is understood that photo interpretation has been completed and field checking will be finished during the summer of 1969.

During the year continued improvement and expansion was carried out on several existing recreation areas. One new recreation area was established at the North Ram River in the Clearwater-Rocky Forest. An up-dated summary of Board-approved recreation area site plans indicating facilities and services is shown as Appendix "C" to this report.

# WATERSHED RESTORATION

The Alberta Forest Service continued with the work of revegetation at the Barrier Dam borrow area. Fertilizing, mulching and grass seeding has shown good results but considerable time and expense will be required before this scar is healed. Elsewhere, in the three forests over 200 miles of seismic lines have either been completely restored or are in the process of restoration. Corrective drainage and revegetation are being employed at other various damage spots; and experimental fertilizing and seeding of a coal waste area is also being conducted.

# OIL AND NATURAL GAS DEVELOPMENTS

The past year was a very active one for oil and gas exploration, particularly in the Clearwater-Rocky Forest, as will be seen from the following:

	Operating Wells		Non-Operating Wells		Wells being Drilled		Dry Holes	
	1968	1967	1968	1967	1968	1967	1968	1967
Crowsnest Forest	26	27	7	5	1	-	-	-
Bow River Forest	-	-	17	10	14	3	-	-
Clearwater-Rocky Forest	14	-	-	8	6	-	33	-
	40	27	24	23	21	3	33	-



GEOPHYSICAL  
EXPLORATION

Oil and gas discoveries in the Prairie Creek and Strachan areas greatly accelerated exploration activity. Intensive and complex geophysical line patterns have been cut throughout large areas of the Bow River and Clearwater-Rocky Forests. During the year over 1,750 miles of new line were cut in 118 seismic programs. Close supervision is necessary to prevent excessive watershed damage; in this connection the Rocky Mountain House office conducted training programs for on-the-ground operators which resulted in a marked reduction in damage to watershed by seismic and drilling operations in that area.

FOREST  
PROTECTION

Insofar as the Conservation Area is concerned 1968 was a "good" year for forest fires (although very serious fires occurred outside the Forest Reserve in the Slave Lake, Whitecourt and Lac La Biche areas). A total of 44 forest fires were recorded in the Conservation Area compared to 51 during the preceding year. The area burned in 1968 amounted to only 4.8 acres compared to 1,155 acres in 1967.



## FOREST PRODUCTION

# Statistics on timber licenses, timber permits and production of lumber and related products in the Rocky Mountains

Forest Reserve, as reported by the Alberta Forest Service for the year under review are noted hereunder:

Number of Timber Quota Certificates offered for sale	6
Quota Volume Offered	756.6 M. cu. ft.
Number of Timber Licenses offered for sale	none
Number of Timber Licenses granted to Quota Holders	6
Volume of Timber granted: Coniferous	5,473,392 cu. ft.
Salvage License granted	723,874 cu. ft.
Number of Special Timber Permits issued	13
Volume of Timber Permitted	228,343 cu. ft.
Number of Miscellaneous Timber Permits issued	178
Number of active Timber Licenses	66
Production of lumber and related products:	
- Lumber (feet board measure)	45,023,062
- Plywood logs, coniferous (feet Board Measure)	none
- Railway ties (pieces)	1,056
- Round Timber (cubic feet)	306,090
- Lath (pieces)	556,200
- Slabs and Fuelwood (cords)	4.8
- Christmas Trees (number)	2,442
- Trees for transplanting (number)	347



CONSTRUCTION  
AND MAINTENANCE

New construction and maintenance carried out by the Alberta Forest Service is reported hereunder.

Roads: In the Bow River Forest eight miles of the Harold Creek Road were re-shaped and six miles were re-gravelled. Three and a half miles of the Northwest Branch Road in the Crowsnest Forest were improved. Drainage improvements were made to the Deer Creek Basin Road.

Bridges: A 20-foot, precast cement bridge was erected across Harold Creek and a similar bridge of 28 feet was erected across MacGregor Creek on the Harold Creek Road.

Buildings: The cabin at Chungo Look-out was replaced with a new structure. Delhi radio masts were installed at Crowsnest Forest Headquarters, and at the Sheep, Elbow, Kananaskis, Shunda and Clearwater ranger stations. The water system at Nordegg Ranger Station was improved and landscaping was completed at Willow Creek Ranger Station.

Airstrips: Two 12,000-gallon water storage tanks for water bombing were installed, one at the Ghost airstrip and the other at Cowley.



FOREST AND WATERSHED RESEARCH  
BY THE  
CANADA FORESTRY BRANCH

In the Memorandum of Agreement of the Eastern Rocky Mountain Forest Conservation Act the Board is empowered "to make arrangements with other agencies for the undertaking of research and other scientific investigations".

The Board continued to receive generous support and assistance from the Forestry Branch, Calgary, of the Department of Fisheries and Forestry, by way of research on forest resource and protection problems in the Conservation Area along the lines indicated in previous annual reports. The work performed by the Board staff and the cooperating agency during the year is outlined hereunder.

SILVICULTURE AND  
FOREST ECOLOGY

Accomplishments in silvicultural research during 1968 consisted primarily of completion of some studies of long standing, including harvest cutting, seedbed treatment and planting trials. Research in the problem has advanced to where some of the important silvical and environmental factors affecting new regeneration in the Rocky Mountains are well known. The usefulness of this information to forest managers is limited, however, by the necessity to apply the results that are meaningful in an economic way. For lack of personnel the silvicultural research program is being held on a maintenance basis; however, an active liaison development program is maintained in cooperation with the Alberta Forest Service. It is planned to assess the research needs and resume the regular silvicultural research program as soon as qualified staff is available.

Ecological investigations of rates of organic matter accumulation in aspen were carried out at Kananaskis in cooperation with the University of Calgary Environmental Sciences Centre. Biomass measurements from aspen forests were conducted in the Streeter Basin area where there is research interest in various surface processes including evapotranspiration, rainfall interception, energy absorption and re-radiation. Other ecological investigations in the Forest Reserve included spruce seed for germination studies and completion of a study on the total growth of root, stem and crown of white spruce in the Kananaskis Valley.



LAND CLASSIFICA-  
TION AND SOILS

Evaluation of selected soils on forest plots was carried out in parts of the East Slopes Area to augment the data for the Forest Land Capability Classification for the East Slopes Area. This work provided information to the Alberta Forest Service for preparation of forest land capability maps for the Canada Land Inventory of the entire East Slopes Area, excepting the national parks. Correlation work along the Alberta/B.C. boundary was undertaken to obtain uniform mapping results where Canada Land Inventory maps adjoin across provincial boundaries.

FOREST INSECT AND  
DISEASE CONDITIONS

An assessment of the incidence and damage caused by forest pests in the Forest Reserve is part of the general regional survey. The most significant development during 1968 was the outbreak of spruce bark beetle in the Crowsnest Forest. Populations of this insect increased to epidemic proportions and have resulted in significant mortality to the mature spruce. The outbreak is part of a larger infestation occurring in Waterton Lakes National Park and adjacent areas of British Columbia and Montana. Endemic populations have been present in the Crowsnest Forest for many years and are considered normal in overmature spruce; however, abnormal amounts of breeding sites, coupled with favourable weather conditions have resulted in increased populations to the extent that standing living spruce may be attacked. Aerial and ground surveys are being used to assess the incidence of attack. Where necessary recommendations have been issued to the Alberta Forest Service to commence salvage operations. Damage to spruce from other organisms was comparatively minor.

Mortality of lodgepole pine occurred as a result of dwarf mistletoe, shoestring root rot and stem rusts. Dwarf mistletoe has caused up to 50 per cent mortality in severely infested stands on the slopes along Cataract and Wilson creeks. Armillaria continued to spread and cause mortality in young dense stands of lodgepole pine in the Deer Creek Basin. Also, stem rust caused considerable mortality in similar stand types in Marmot Creek Basin.

As expected, the occurrence of the large aspen tortrix subsided throughout the Reserve during 1968. Patches of moderate to severe defoliation, however, occurred in the Porcupine Hills and along the Red Deer River.



#### FOREST HYDROLOGY

Snow courses designed to evaluate the effect of forest cover on the existing areal snow distribution patterns were instituted in both Marmot and Deer Creek basins. These were read once at the peak of snowpack. Also, biweekly aerial photographs of snow cover and its relation to topographic features and vegetation were taken at Marmot, Deer Creek and Streeter basins. These photos will be used to analyse existing snow distribution patterns and to prepare more comprehensive studies into the role vegetation plays in precipitation distribution.

Studies of canopy interception, stem-flow and throughfall continued at Streeter Basin. This work is essentially complete and will be terminated with the publication of a report in 1969.

The movement of water and soils in response to energy gradients received comprehensive attention at the Kananaskis Experimental Forest, Marmot and Deer Creek basins. Several sites have been instrumented with tensiometers and neutron access tubes. Plans are currently under way to conduct transpiration investigations on some sites also, including the use of tree internal moisture tension as an indicator of soil moisture availability.

#### APPLIED WATERSHED STUDIES BY EASTERN ROCKIES FOREST CONSERVATION BOARD

The Board staff has continued its part in the cooperative watershed research program, not only on the committees (Steering Committee and Research Coordinating Committee) but also in the gauged basin projects on the East Slopes, in the applied research and on the operation of data collecting networks. Besides this research, the following projects were continued independently of the cooperative Alberta Watershed Research Program.

In the study of snow management through timber cutting in the West Castle River Basin a year's data have been collected. However, the project is jeopardized by a serious infestation of spruce bark beetle. Snowpack measurements are continuing into the summer of 1969 when the infestation will be assessed to see if mortality of trees is sufficient to make the project ineffective and require the salvage logging of the remaining strips.



In the study of snow accumulation by artificial means on Plateau Mountain a grid of poles for measuring snow depth was set up in 1967. During the winter of 1968-69 detailed measurements of volume and subsequent ablation were made. A preliminary report of the project is in progress.

The short-term project in cooperation with the Alberta Forest Service in the Swan Hills was continued. To the study of erosion associated with petroleum exploration and extraction was added sediment sampling in the Swan River. Valuable assistance in this phase is being given by the Inland Waters Branch of the Department of Energy, Mines and Resources. The erosion runoff plots and the precipitation network are being continued. The demonstrations of ways of stopping erosion on disturbed land are not being extended but are under continuing observation. It has been demonstrated that erosion can be prevented or greatly reduced and that stability can be restored on disturbed land by structural and revegetative means.

One part of the Alberta Watershed Research Program for which the Board is responsible is the operation of a network of storage precipitation gauges on the east slopes of the Rockies. The network was started in 1954 and methods that had evolved had become complicated. Considerable variation was noted in orifices and volume of tanks built at different times by different manufacturers. Both the complexity of reading gauges and converting to inches of precipitation, and the variability of the gauges contributed to error which could be avoided. Therefore, a sample number of the gauges were brought in and by experimentation an improvement was worked out through a modification of the orifice and a simplified method of measuring the stored moisture and converting it to inches of precipitation. This modification in the gauges and methods was put into operation on the network in 1968.

#### DEVELOPMENT AND FORESTRY SERVICES

Assessments of Alberta Forest Service container planting, conventional planting and scarification continued in the Clearwater-Rocky Forest. Exotic plantations of Colorado spruce, Norway spruce, Ponderosa pine, Douglas fir, green ash and Siberian larch were established in the Bow and Clearwater-Rocky Forests.



An investigation of the effects of transpiration retardant applications to conventional plantations of white spruce and lodgepole pine were initiated in the Bow and Clearwater-Rocky Forests. A cooperative trial of fertilization in 13 year-old and 64 year-old lodgepole pine stands was established in the Clearwater-Rocky Forest. The drum-chopper thinned stands of lodgepole pine in the Bow River Forest were examined for evidence of release following treatment.

REVENUE  
Revenue from surface rights amounted to \$275,257, an over-all increase of \$15,640 from the previous year. Details of revenues are summarized as follows:

	1966-67	1967-68
<b>Logging and Revenue</b>		
Permits, Taxes	\$ 77,025	\$ 74,404
Logging - Miscellaneous	308	308
Log Permits, Taxes, Dues	-	-
Timber Sales	1,025	1,503
Miscellaneous Leases	1,582	1,582
Grading Revenue	1,729	2,296
Other Permits	1,726	1,614
Special Timber Permits	329	257
Other Fees, Rentals	20,559	19,300
Other Dues	248,297	231,518
	<u>\$151,281</u>	<u>\$137,583</u>

EXPENDITURE  
Operating expenses of the Board amounted to \$52,366 provided by the Province of Alberta under vote 1812 as detailed hereunder:

	General	Marshes	Total
	Administration	Research	Expenditure
Trucks & Automobiles	\$ 4,204	\$ 1,325	\$ 5,529
Contracts, Fees, Commissions	1,820	-	1,820
Office Expense & Equipment	159	10	169
Buildings, Equipments, Tools	593	609	1,202
Materials & Supplies	-	-	-
Administration & Operating	1,172	103	1,275
Construction & Maintenance	-	175	175
Postage	136	-	136
Travel & Transportation	-	21	21
Repair of Equipment	30	60	90



## ACCOUNTING

The statements included in this section of the report reflect the revenue derived by the Alberta Forest Service from surface rights in the Conservation Area and expenditures by the Board and the Province for the maintenance and administration of the Area.

**REVENUE** Revenue from surface rights amounted to \$353,294, an over-all increase of \$15,646 from the previous year. Details of revenues are summarized as follows:

	<u>1968-69</u>	<u>1967-68</u>
Grazing and Revenue		
Permits, Taxes	\$ 77,025	\$ 74,604
Grazing - Miscellaneous	106	100
Hay Permits, Fees, Dues	-	-
Right-of-Entry	1,025	1,503
Miscellaneous Leases	1,502	1,846
Sundry Revenue	1,725	2,296
Timber Permits	2,726	5,614
Special Timber Permits	329	867
Timber Fees, Rentals	20,559	19,300
Timber Dues	248,297	231,518
	<u>\$353,294</u>	<u>\$337,648</u>

**EXPENDITURE** Operating expenses of the Board amounted to \$92,366 provided by the Province of Alberta under Vote 1819 as detailed hereunder:

	<u>General Administration</u>	<u>Watershed Research</u>	<u>Total Expenditure</u>
Trucks & Automobiles	\$ 3,244	\$ 1,316	\$ 4,560
Contracts, Fees, Commissions	1,030	-	1,030
Office Expense & Equipment	159	10	169
Furnishings, Equipments, Tools	513	604	1,117
Materials & Supplies:			
Administrative & Operating	1,678	102	1,780
Construction & Maintenance	-	178	178
Postage	130	-	130
Rental of Equipment	-	550	550
Repair of Equipment	39	669	708



	<u>General Administration</u>	<u>Watershed Research</u>	<u>Total Expenditure</u>
Canada Pension Plan	\$ 254	\$ -	\$ 254
Telephone	571	-	571
Travelling Expenses	1,325	4,741	6,066
	<u>\$ 8,943</u>	<u>\$ 8,170</u>	<u>\$ 17,113</u>
Salaries-Public Service	41,854	-	41,854
Salaries & Wages - Non-Public Service	33,399		33,399
	<u>\$ 84,196</u>	<u>\$ 8,170</u>	<u>\$ 92,366</u>

A current account is maintained with the Royal Bank of Canada from which the Board disburses its administrative expense. All expenditures by the Board are audited monthly by the Provincial Auditor.

Expenditure for the maintenance and administration of the Conservation Area, including the expense of the Board, provided by the Province of Alberta in accordance with Section 2(a)(11) of the Memorandum of Agreement between the Government of Canada and the Government of the Province of Alberta amounted to \$1,157,896.25 for the fiscal year under review.

For financial details see Appendix "D", Statements A, B, and C.

#### WORKMEN'S COMPENSATION

The Board's deposit of \$5,000 with the Alberta Workmen's Compensation Board earned interest of \$246.53 less administrative expense and reserve for rehabilitation and enhanced disabilities of \$93.00, leaving a net credit to Proprietary Equity of \$153.53.

#### ESTIMATES FISCAL YEAR 1969-70

Estimates for the administration of the Board for the fiscal year 1969-70 in the amount of \$84,000 were approved by the Legislature of the Province of Alberta under Appropriation No. 1819.



## DISTRIBUTION OF ALBERTA FOREST SERVICE PERSONNEL

FISCAL YEAR 1968-69

<u>Permanent Staff</u>	<u>Crowsnest Forest</u>	<u>Bow River Forest</u>	<u>Clearwater- Rocky Forest</u>	<u>TOTALS</u>
Forest Superintendents	1	1	1	3
Fire Control Officers	1	1	1	3
Foresters	1	1	2	4
Assistant Fire Control Officers	1	1	1	3
Forest Management Technicians	-	1	1	2
District Rangers	5	9	8	22
Land Use Officers	1	1	1	3
Assistant Rangers	4	9	6	19
Clerks	1	1	2	4
Stenographers and Typists	1	3	2	6
Radio Operators	1	1	1	3
Carpenters	-	1	1	2
Road Foremen	1	-	1	2
Warehousemen	1	1	1	3
Automotive Equipment Operators	1	2	2	5
Lookoutmen - Permanent	1	2	2	5
	21	35	33	89
Lookoutmen - Seasonal	7	11	14	32
	28	46	47	121



## GRAZING 1968

	CROWSNEST FOREST		BOW RIVER FOREST		CLEARWATER-ROCKY FOREST		FOREST RESERVE TOTAL	
	1967	1968	1967	1968	1967	1968	1967	1968
Cattle	14,562	14,315	9,994	9,560	1,166	1,073	25,722	24,948
Sheep	-	956	-	-	-	-	-	956
Horses	-	-	276	285	139	144	415	429
Total	14,562	15,271	10,270	9,845	1,305	1,217	26,137	26,333
Actual Use in A.U.M.*	45,607	45,313	33,080	34,660	6,011	5,896	84,698	85,869
No. of Permits	181	180	94	91	24	24	299	295
No. of Allotments	47	49	39	34	14	13	100	96
Revenue	\$40,462.42	\$41,275.73	\$28,887.80	\$29,957.00	\$3,959.72	\$3,839.85	\$73,309.94	\$75,072.58

\* A.U.M. - Animal Unit Month:



\*ROCKY MOUNTAINS FOREST RESERVE  
RECREATION AREA DEVELOPMENT PROGRAM

Facilities and Services

Board Approved Recreation Area Site Plans	Unit Capacity			Boat Launching	Developed Water Well	Wood Supply	Caretaker Services	Weekly Cleanup Inspection	Shelter	Planned Trailer Dumping Disposal Station	ARDA Supported	Parking Areas	
	Picnic Section	Tent Section	Trailer Section										
Ram Falls	50	30	20	-	x	x	x	-	x	x	x	x	
Fish Lake	20	11	19	x	x	x	x	-	x	x	x	x	
Upper Shunda Creek	20	15	5	-	x	x	-	x	-	-	x	x	
Eau Claire	10	10	20	-	x	x	-	x	x	x	-	x	
Cat Creek	10	10	-	-	x	x	-	x	x	-	-	x	
Cataract Creek	10	10	-	-	x	x	-	x	x	-	-	x	
Burnt Timber	10	10	8	-	x	x	-	x	-	-	x	x	
Gooseberry Flat	30	10	10	-	x	x	-	x	-	-	-	x	
Kananaskis Lakes	-	18	-	x	x	x	-	x	-	-	-	-	
Beaver Flat	10	10	-	-	x	x	-	x	x	-	-	x	
Spray Lakes	-	21	-	x	x	x	-	x	-	-	-	-	
Red Deer River	12	15	-	-	x	x	-	x	x	-	-	x	
Livingstone Falls	40	12	4	-	x	x	-	x	x	-	-	x	
Racehorse	40	10	6	-	x	x	-	x	x	-	-	x	
Lynx Creek	20	10	6	-	x	x	-	x	-	x	-	x	
Waiparous Creek	10	20	20	-	x	x	-	x	x	x	-	x	
James Wilson	10	5	10	-	x	x	-	x	x	-	x	x	
North Ram River	10	10	-	-	x	x	-	x	-	-	x	x	
Chinook	-	19	12	x	x	x	-	x	x	-	-	x	
Deer Creek	10	-	-	-	-	x	-	x	x	-	x	x	
Dutch Creek	20	16	8	-	x	x	-	x	x	x	-	x	
Seven Mile	10	10	8	-	x	x	-	x	x	-	x	x	
Prairie Creek	10	10	10	-	x	x	-	x	x	-	x	x	
	362	292	166										

\* Program development during 1965-68.

x Facilities provided free.



**GOVERNMENT OF THE PROVINCE OF ALBERTA**  
**OFFICE OF THE PROVINCIAL AUDITOR**

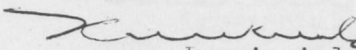
**EDMONTON,**

June 16, 1969

Eastern Rockies Forest Conservation Board  
CALGARY 2, Alberta

I have examined the Balance Sheet of the Eastern Rockies Forest Conservation Board as at March 31, 1969, and the Statements of Maintenance Expenditure and Government of Canada and Government of the Province of Alberta Equity for the year then ended. My examination included a general review of the accounting procedures and such tests of accounting records and other supporting evidence as I considered necessary in the circumstances.

In my opinion these financial statements present fairly the financial position of the Board as at March 31, 1969, and its maintenance expenditure for the year then ended, in accordance with generally accepted accounting principles applied on a basis consistent with that of the preceding year.

C. X.  F. C. A.  
Provincial Auditor .



EASTERN ROCKIES FOREST CONSERVATION BOARD

BALANCE SHEET \*

AS AT MARCH 31, 1969

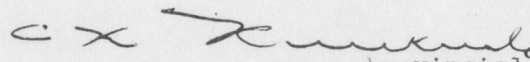
ASSETS

Workmen's Compensation Board deposit	\$ 5,153.53
Value of loose tools and equipment transferred to the Province of Alberta as at April 1, 1959	173,496.38
Capital improvements and works	5,716,615.20
	<hr/>
	\$ 5,895,265.11
	<hr/> <hr/>

LIABILITIES

Government of Canada and Government of the Province of Alberta equity, Statement C	\$ 5,895,265.11
	<hr/> <hr/>

This is the Balance Sheet referred to in my report  
of June 16, 1969, addressed to the Eastern Rockies  
Forest Conservation Board.

 F. C. A.  
Provincial Auditor.

\* (Notes 1 and 2)

The accompanying notes are a part  
of these financial statements.



EASTERN ROCKIES FOREST CONSERVATION BOARDSTATEMENT OF MAINTENANCE EXPENDITURE \*FOR THE YEAR ENDED MARCH 31, 1969

## Maintenance expenses:

Salaries	\$667,718.65
Wages	162,952.82
Equipment and motor vehicle expense	99,936.51
Travelling	53,001.12
Rentals	50,809.47
Maintenance, material and operation expense	35,654.56
Heat, light and power	19,986.53
Administration and general expense	8,320.97
Telephone and telegraph	6,511.19
Freight, express and cartage	2,278.19
Postage	1,376.59
Honorarium	1,000.00
Pensions	253.86
Advertising	62.16

\$1,109,862.62

44,778.53

3,255.10\$1,157,896.25

Automobiles, trucks and mobile equipment  
 Furnishings, equipment and tools

\$1,157,896.25

## Provided by:

Appropriations 1815, 1819 and 1821

\$1,157,896.25

\* (Note 3)



EASTERN ROCKIES FOREST CONSERVATION BOARDSTATEMENT OF GOVERNMENT OF CANADA AND GOVERNMENTMARCH 31, 1969EASTERN ROCKIES FOREST CONSERVATION BOARDSTATEMENT OF GOVERNMENT OF CANADA AND GOVERNMENTOF THE PROVINCE OF ALBERTA EQUITYFOR THE YEAR ENDED MARCH 31, 1969

Balance as at April 1, 1968	\$5,895,261.89
Add:	
Workmen's Compensation Board deposit interest	153.53
	\$5,895,415.42
Deduct:	
Workmen's Compensation Board interest remitted	150.31
Government of Canada and Government of the Province of Alberta equity as at March 31, 1969	\$5,895,265.11

Note 1: Total capital expenditures from inception to March 31, 1968, amounting to \$2,500,000.00, were provided by the Government of Canada and the Government of the Province of Alberta in accordance with Section 2 (a)(ii) of the Memorandum of Agreement, dated June 17, 1953, between the Government of Canada and the Government of the Province of Alberta as set forth in the Schedules to Chapter 41, Statutes of Canada, 1952, and Chapter 36, Statutes of Alberta, 1953.

The remuneration and expenses of members of the Board were paid by the Governments of Canada and the Province of Alberta in accordance with Section 2 (b)(iii) of the Memorandum of Agreement. The amounts paid by the Province of Alberta, including the honorarium of \$1,000.00 to A. T. Baker, have been incorporated into the Statement of Maintenance Expenditure.



EASTERN ROCKIES FOREST CONSERVATION BOARD

NOTES TO THE FINANCIAL STATEMENTS

MARCH 31, 1969

- Note 1: Total capital expenditures from inception to March 31, 1955, amounting to \$6,278,906.10 were made from funds provided by the Government of Canada (as authorized under Section 8(a) of the Memorandum of Agreement) for the location and construction of forest improvements, the making of a forest inventory, reforestation, and such other works and services as the Board considered necessary in that area of the East Slope of the Rocky Mountains forming part of the watershed of the Saskatchewan River, as more definitely described in the Appendix to the Act. The total expenditure was not to exceed \$6,300,000.00 during the seven years ended March 31, 1955.
- Note 2: Section 20 of the Memorandum of Agreement set forth in the Schedules to Chapter 59, Statutes of Canada, 1947, and Chapter 20, Statutes of Alberta, 1948, and Amendment Acts, 1957, provides that upon termination of the Agreement:
- (a) All improvements or works resulting from the carrying out of the programs of the Board shall belong to the Province.
  - (b) All other property, acquired by the Board shall belong to the Province.
- Note 3: The total amount expended by the Board was provided by the Government of the Province of Alberta in accordance with Section 2 (a)(ii) of the Memorandum of Agreement, dated June 17, 1953, between the Government of Canada and the Government of the Province of Alberta as set forth in the Schedules to Chapter 41, Statutes of Canada, 1952, and Chapter 36, Statutes of Alberta, 1953.
- The remuneration and expenses of members of the Board were paid by the Governments of Canada and the Province of Alberta in accordance with Section 2 (b)(iii) of the Memorandum of Agreement. The amounts paid by the Province of Alberta, including the honorarium of \$1,000.00 to A. T. Baker, have been incorporated into the Statement of Maintenance Expenditure.





## Date Due

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